

SPECIAL NOTE FOR ASPHALT PAVEMENT REINFORCEMENT WITH GEOGRIDS (EXPERIMENTAL)

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department's 2004 Standard Specifications for Road and Bridge Construction.

1.0 DESCRIPTION. Install a geogrid between layers of asphalt pavement for reinforcement of the asphalt pavement. See the proposal or the plans for the area to be treated. The Engineer may increase or decrease this area because of pavement conditions encountered in the field after work begins.

2.0 MATERIALS. Use geogrid reinforcement of the latest design from any of the following manufacturers:

2.1 Biaxial Geogrid GC 1400 (AR - 1/PET) with Trevira Spunbound Type 1114 fabric or equivalent. Address: The Tensar Corporation, 1210 Citizens Parkway, Marrow, Georgia 30260.

2.2 Glass Grid Mesh Complete Road System 8501 or Detail Repair System 8502. Address: Bay Mills Limited, 39 Seapark Drive, P. O. Box 728, St. Catharines, Ontario, Canada, L2R6Y3.

2.3 Hatelit Grid. Address: Huesker Inc., Geotechnical Products, P. O. Box 411529, Charlotte, N.C. 28241.

3.0 CONSTRUCTION. Before beginning installation, furnish copies of the manufacturer's literature and specifications showing details of the reinforcement material and methods of installation to the Engineer. Include the manufacturer's complete instructions for cutting, placing, lapping, tensioning, and installing the material.

Have a representative of the manufacturer on the project when work begins and on call as the project progresses to advise.

3.1 Reinforcement Installation. Install the geogrid on the asphalt base course at the locations that the proposal or plans designate.

Clean the surface according to Subsection 403.03.02. Unless prohibited by the manufacturer's installation instructions, thoroughly tack the area before placing the geogrid. Apply the tack at 2.4 lb/square yard unless the Engineer specifies otherwise. Use additional tack if necessary after placing the geogrid. Ensure that the geogrid is placed flush against the underlying surface.

Cut, place, overlap, tension, and fix the geogrid in place according to the manufacturer's written instructions. Fasten the geogrid with care to avoid wrinkles. Unless the manufacturer's instructions specify otherwise, or unless the Engineer directs, fasten the geogrid longitudinally to the underlying surface at least every 10 feet and transversely every 3 feet. Use long fence staples or a similar type of fastener. Make adjustments in the number and location of fasteners to ensure the geogrid is firmly attached to the underlying surface when the Engineer directs. Delete fasteners with the Engineer's approval after demonstrating that there is a sufficient bond to hold the geogrid in place and there are no

movements or wrinkles while placing the asphalt overlay.

Except for paving equipment and vehicles, do not allow traffic until the following course of asphalt base is placed.

3.2 Paving. Place the asphalt mixture over the geogrid and compact according to Subsection 403.03. Ensure that the grid is not disturbed by vehicle movements or paver operation. Exercise caution during the operation of rollers to prevent the movement of the grid.

3.3 Fault Repair. If evidence appears that the geogrid has lost its bond or there are visible faults that occur due to movement of the geogrid, immediately remove the asphalt mixture and the geogrid and replace with new geogrid and asphalt mixture.

4.0 MEASUREMENT.

4.1 Asphalt Pavement Reinforcement. The Department will measure the quantity in square yards. The Department will not measure fault repairs and providing a manufacturer's representative for payment and will consider them incidental to this item of work.

4.2 Asphalt Mixture. The Department will measure the quantity according to Subsection 402.04.

4.3 Asphalt Pavement Milling and Texturing. The Department will measure the quantity according to Subsection 408.04.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
----	Asphalt Pavement Reinforcement	Square Yard
----	Asphalt Mixture	See Subsection 402.05
2677	Asphalt Pavement Milling and Texturing	See Subsection 408.05

The Department will consider payment as full compensation for all work required under this note.

March 1, 2004